

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10538483
Filing Date		2005-06-08
First Named Inventor	Arun Ramaswamy	
Art Unit	2624	
Examiner Name	Seyed H. Azarian	
Attorney Docket Number	20004/83-US	

**U.S.PATENTS**

[Remove](#)

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4468807		1984-08-28	Moulton	
	2	4611347		1986-09-09	Netravali et al.	
	3	4843631		1989-06-27	Steinpichler et al.	
	4	4858000		1989-08-15	Lu	
	5	4993049		1991-02-12	Cupps	
	6	5063603		1991-11-05	Burt	
	7	5067160		1991-11-19	Omata et al.	
	8	5099324		1992-03-24	Abe	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10538483
Filing Date		2005-06-08
First Named Inventor	Arun Ramaswamy	
Art Unit		2624
Examiner Name	Seyed H. Azarian	
Attorney Docket Number		20004/83-US

	9	5121201		1992-06-09	Seki	
	10	5164992		1992-11-17	Turk et al.	
	11	5229764		1993-07-20	Matchett et al.	
	12	5412738		1995-05-02	Brunelli et al.	
	13	5629752		1997-05-13	Kinjo	
	14	5675663		1997-10-07	Koerner et al.	
	15	5715325		1998-02-03	Bang et al.	
	16	5719951		1998-02-17	Shackleton et al.	
	17	5771307		1998-06-23	Lu et al.	
	18	5781650		1998-07-14	Lobo et al.	
	19	5801763		1998-09-01	Suzuki	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10538483
Filing Date		2005-06-08
First Named Inventor	Arun Ramaswamy	
Art Unit		2624
Examiner Name	Seyed H. Azarian	
Attorney Docket Number		20004/83-US

	20	5805745		1998-09-08	Graf	
	21	5835616		2006-11-10	Lobo et al.	
	22	5850470		1998-12-15	Kung et al.	
	23	5859921		1999-01-12	Suzuki	
	24	5864630		1999-01-26	Cosatto et al.	
	25	5878156		1999-03-02	Okumura	
	26	5892837		1999-04-06	Luo et al.	
	27	5901244		1999-05-04	Souma et al.	
	28	5920641		1999-07-06	Ueberreiter et al.	
	29	5963670		1999-10-05	Lipson et al.	
	30	5978507		1999-11-02	Shackleton et al.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10538483
Filing Date		2005-06-08
First Named Inventor	Arun Ramaswamy	
Art Unit		2624
Examiner Name	Seyed H. Azarian	
Attorney Docket Number		20004/83-US

	31	5987154		1999-11-16	Gibbon et al.	
	32	6055323		2000-04-25	Okumura	
	33	6332033		2001-12-18	Qian	
	34	6332038		2001-12-18	Funayama et al.	
	35	6363159		2002-03-26	Rhoads	
	36	6940545		2005-09-06	Ray et al.	
	37	6944319		2005-09-13	Huang et al.	
	38	3805238		1974-04-16	Rothfjell	
	39	5384716		1995-01-24	Araki et al.	
	40	4849737		1989-07-18	Kirihata et al.	
	41	5793409		1998-08-11	Tetsumura	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10538483
Filing Date	2005-06-08
First Named Inventor	Arun Ramaswamy
Art Unit	2624
Examiner Name	Seyed H. Azarian
Attorney Docket Number	20004/83-US

42	4769697		1988-09-06	Gilley et al.	
----	---------	--	------------	---------------	--

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

**U.S.PATENT APPLICATION PUBLICATIONS**

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030033600		2003-02-13	Cliff et al.	
	2	20050198661		2005-09-08	Collins et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

**FOREIGN PATENT DOCUMENTS**

Remove

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	WO2004/054255	WO		2004-06-24	Ramaswamy et al.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

Add

**NON-PATENT LITERATURE DOCUMENTS**

Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	Duda and Hart, "Bayes Decision Theory", Pattern Classification & Scene Analysis, pp. 10-43, Wiley Publishers, 1973.	<input type="checkbox"/>
	2	International Preliminary Examination Report corresponding to International Application No. PCT/US2002/039625, April 27, 2004, 4 pages.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10538483
Filing Date	2005-06-08
First Named Inventor	Arun Ramaswamy
Art Unit	2624
Examiner Name	Seyed H. Azarian
Attorney Docket Number	20004/83-US

3	Qing et al. "Histogram Based Fuzzy C - Mean Algorithm For Image Segmentation," Pattern Recognition, 1992. Vol. III. Conference C: Image, Speech and Signal Analysis, Proceedings., 11th IAPR International Conference, August 30 - September 2, 1992.	<input type="checkbox"/>
4	Wolfram, Stephen, "Mathematica A System for Doing Mathematics by Computer", 2d Ed., Addison-Wesley Publishing Company, Inc., 1991, pp. 665-666.	<input type="checkbox"/>
5	"Convex Hull", <a href="http://www.cse.unsw.edu.au/~lambert/java/3d/ConvexHull.html">http://www.cse.unsw.edu.au/~lambert/java/3d/ConvexHull.html</a> , downloaded November 6, 2002.	<input type="checkbox"/>
6	"What is convex hull? What is the convex hull problem?," <a href="http://www.ifor.math.ethz.ch/~fukuda/polyfaq/node13.html">http://www.ifor.math.ethz.ch/~fukuda/polyfaq/node13.html</a> , downloaded November 6, 2002.	<input type="checkbox"/>
7	"1.6.2 Convex Hull," <a href="http://www.cs.sunysb.edu/~algorithm/files/convex-hull.shtml">http://www.cs.sunysb.edu/~algorithm/files/convex-hull.shtml</a> , downloaded November 6, 2002.	<input type="checkbox"/>
8	Ramaswamy et al., "Detecting a composition of an audience," U.S. Patent Application Serial No. 10/538,692, filed November 12, 2002.	<input type="checkbox"/>
9	International Search Report corresponding to International Application No. PCT/US2002/039625, June 20, 2003, 5 pages.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10538483
Filing Date	2005-06-08
First Named Inventor	Arun Ramaswamy
Art Unit	2624
Examiner Name	Seyed H. Azarian
Attorney Docket Number	20004/83-US

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/James A. Flight/	Date (YYYY-MM-DD)	2006-07-11
Name/Print	James A. Flight	Registration Number	37622

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.